

# Comparisons of Job Characteristics

**Focus Occupation:** Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

**Associated Occupation:** Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

**Focus Occupation:** Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

**Associated Occupation:** Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Building and Construction	4.0	14.3	12.5	< Expanded education and/or training may be required
Mechanical	6.8	12.8	20.1	>> Current knowledge level is likely more than sufficient
Public Safety and Security	6.9	11.5	9.2	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 66

**Focus Occupation:** Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

**Associated Occupation:** Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Repairing	3.4	7.7	13.5	>> Skill level is likely more than sufficient
Equipment Selection	3.3	5.2	9.4	>> Skill level is likely more than sufficient
Installation	1.7	5.0	12.6	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 75

**Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)****Associated Occupation: Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Extent Flexibility	4.8	11.0	11.8	0	Current ability level may be sufficient
Manual Dexterity	6.5	9.6	9.0	0	Current ability level may be sufficient
Trunk Strength	5.7	9.0	9.6	0	Current ability level may be sufficient
Static Strength	5.0	8.6	10.0	>	Current ability level is likely sufficient
Gross Body Equilibrium	3.2	6.1	7.1	>	Current ability level is likely sufficient
Dynamic Strength	3.5	5.6	5.9	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)****Associated Occupation: Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)**

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Apply cleaning solvents	41
Assemble and install pipe sections, fittings, or plumbing fixtures	71
Bend tubing or conduit	81
Cut, bend, or thread pipe for gas, air, hydraulic, or water lines	84
Fabricate, assemble, or disassemble manufactured products by hand	11
Measure and mark reference points or cutting lines on workpieces	66
Move or fit heavy objects	8
Repair or replace gas, steam, sewer, or water piping or fixtures	82
Use acetylene welding/cutting torch	54
Use basic plumbing techniques	72
Use hand or power tools	2
Use pipe fitting equipment	80

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 85

**Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)****Associated Occupation: Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)**

Tools and Technologies	Exclusivity
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Aerial lifts	13
Bandsaws and accessories	26
Cameras	2
Cleaning equipment	11
Compressors	9
Cutting and crimping and punching tools	3
Dispensing tools	6
Earth moving machinery	11
Electrical measuring and testing equipment	7
Face and head protection	7
Fall protection	16
Forming tools	2
Garden tools	12
Gas analyzers and monitors	10
Holding and clamping tools	3
Humidity and moisture measuring instruments	15
Indicating and recording instruments	2
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Metal bending and forming machinery	17
Metals and metallurgy and structural materials testing instruments	15
Non destructive examination equipment	13
Passenger motor vehicles	13
Personal communication devices	2
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Pumps	9
Rough and finishing tools	5
Sampling equipment	12
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Surveillance and detection equipment	11
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Transportation related equipment and instruments	29
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.